



AGNICO EAGLE

EXPLORATION

MELIADINE GOLD PROJECT

ENVIRONMENTAL REPORT: JUNE 2014

PRESENTED TO THE NUNAVUT WATER BOARD

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This monthly report is delivered under water license 2BB-MEL0914, PART J, items 13.

1. The Licensee shall maintain Monitoring Stations at the following locations:

Table 1: Monitoring stations

Monitoring Program Station Number	Description
MEL-1	Raw water supply intake at Meliadine Lake
MEL-2	Raw water supply intake at Pump Lake
MEL-3	Immediately downstream of old grey water sump prior to effluent entering wetland area, when flow is observed
MEL-3a	Immediately downstream of upgraded sump prior to the effluent entering upgraded wetland area, when flow is observed
MEL-4	At a point immediately upstream of the discharge from the wetland area / upgraded wetland area to Meliadine Lake
MEL-5	Point of discharge for the Bermed fuel containment facilities
MEL-6	Point of discharge for the contaminated soil storage
MEL-7	Final effluent discharge from the BIODISK treatment system
MEL-8	Point of discharge or runoff from the Non-Hazardous Waste Landfill

2. The Licensee shall measure and record, in cubic metres, the daily quantities of water utilized for camp, drilling and other purposes from all sources.

The consumption of fresh water for the site was **97.2m³/day** for the month of June; 57.7m³/day for the drills, 39.0m³/day*** for the camp and 0.5m³/day for the underground.

*** The volume for the camp now includes the indirect water use.

3. The Licensee shall provide the GPS co-ordinates of all locations where sources of water are utilized for all purposes. In UTM nad 1983 zone 15.

- Camp water source: East 541943.0 ; North 6989174.0
- Underground water source: East 540076.0 ; North 6987731.0
- Surface drilling: East 540172.0; North 6987239.0

4. Licensee shall sample at Monitoring Program Station MEL-3, MEL-3a, MEL-4 and MEL-7, monthly during Sewage treatment, effluent discharge and during periods of flow at the point of entry into Meliadine Lake. Samples shall be analyzed for the following parameters:

**Biochemical Oxygen Demand – BOD5
Total Suspended Solids
Oil and Grease (and visual)
Fecal Coliforms
pH**

MEL-7

The licence limit has not been exceeded during the month of June.

Station: STP-FINAL		June				
DATE	Limits	02/06/2014	09/06/2014	16/06/2014	23/06/2014	30/06/2014
Ammonia as N		0.1	1.1	1.0	2.9	11.9
Biochemical Oxygen Demand	80	25.5	19.0	7.2	<6.0	6.6
Heterotrophic Plate Count (AAHB)		>3000	>3000	>3000	>3000	830.0
Nitrate-N		5.6	6.8	6.1	9.7	7.3
Nitrate and Nitrite as N		6.0	7.2	6.5	10.9	8.5
Nitrite-N		0.4	0.4	0.4	1.1	1.1
Oil & Grease	5	<1.0	<1.0	<1.0	<2.0	<1.0
Phosphorus (P)-Total		11.1	10.6	12.1	11.4	12.2
TKN		8.6	8.4	6.1	4.4	16.7
Total Suspended Solids	100	28.0	36.0	13.0	7.0	7.0
Transmittance %		29.9	38.3	37.8	39.1	36.6
pH	6.0-9.5	7.1	7.6	7.5	7.3	7.3
Fecal Coliforms	1000	93.0	430	<3	<3	<3
Total Coliforms		430.0	110000	>110000	9	430.0

5. The Licensee shall, prior to the release of effluent from the Bermed Fuel Containment Facilities at Monitoring Program Station MEL-5 and the contaminated soil storage at MEL-6 for the purpose of demonstrating compliance, sample for the parameters listed under Part D, item 17.

- No release in June.

- 6. The Licensee shall obtain representative samples of the water column below any ice where required under part F, item 7. Monitoring shall include but not limited to the following:**

Total Suspended Solids

pH

Electrical Conductivity, and

Total trace Metals as determined by a standard ICP Scan (to include at a minimum, the following elements: Al, Sb, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Li, Mn, Mo, Ni, Se, Sn, Sr, Tl, Ti, U, V, Zn), and Trace Arsenic and Mercury.

- No sample in June.

- 7. The Licensee shall analyze the samples obtained at Monitoring Program Station MEL-8 for the following parameters:**

pH

Total Suspended Solids (TSS)

Oil & Grease

Total Trace metals as determined by a standard ICP Scan (to include at a minimum, the following elements: Al, Ba, Cd, Cr, Cu, Pb, Ni, Se, Sn, Zn); and Trace Arsenic and Mercury

- The Non-Hazardous Waste Landfill is not constructed yet, but sampling was realised near of the “recycling center” and compared to the MEL 8 limits. The sample respected the licence except for the TSS.

Station:			MEL-8
Date Sampled:			01/06/2014
Sample ID:			L1464577
Laboratory-Measured	Units	Licence 2BB-MEL0914Limits (mg/L)	Results
Mercury (Hg)-Total	mg/L	0.0006	<0.000020
Aluminum (Al)-Total	mg/L		1.52
Antimony (Sb)-Total	mg/L		0.00038
Arsenic (As)-Total	mg/L	1	0.0248
Barium (Ba)-Total	mg/L	1	0.0164
Beryllium (Be)-Total	mg/L		<0.00020
Bismuth (Bi)-Total	mg/L		<0.00020
Boron (B)-Total	mg/L		0.015
Cadmium (Cd)-Total	mg/L	0.1	0.000026
Calcium (Ca)-Total	mg/L		14.8
Cesium (Cs)-Total	mg/L		<0.00010
Chromium (Cr)-Total	mg/L	0.1	0.0076
Cobalt (Co)-Total	mg/L		0.00175
Copper (Cu)-Total	mg/L	1	0.0165
Iron (Fe)-Total	mg/L		2.56
Lead (Pb)-Total	mg/L	0.05	0.00139
Lithium (Li)-Total	mg/L		0.0045
Magnesium (Mg)-Total	mg/L		2.91
Manganese (Mn)-Total	mg/L		0.12
Molybdenum (Mo)-Total	mg/L		0.00086
Nickel (Ni)-Total	mg/L	1	0.0075
Phosphorus (P)-Total	mg/L		<0.10
Potassium (K)-Total	mg/L		2.31
Rubidium (Rb)-Total	mg/L		0.00359
Selenium (Se)-Total	mg/L		<0.0010
Silicon (Si)-Total	mg/L		2.8
Silver (Ag)-Total	mg/L	0.1	<0.00010
Sodium (Na)-Total	mg/L		3.99
Strontium (Sr)-Total	mg/L		0.0899
Tellurium (Te)-Total	mg/L		<0.00020
Thallium (Tl)-Total	mg/L		<0.00010
Thorium (Th)-Total	mg/L		0.00027
Tin (Sn)-Total	mg/L		0.00104
Titanium (Ti)-Total	mg/L		0.0268
Tungsten (W)-Total	mg/L		0.00031
Uranium (U)-Total	mg/L		0.00018
Vanadium (V)-Total	mg/L		0.00385
Zinc (Zn)-Total	mg/L	0.5	0.0105
Zirconium (Zr)-Total	mg/L		0.00135
Total Suspended Solids	mg/L	15	27
Oil & Grease-(IR)	mg/L	15	<1.0